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CONSTRUCTION OF POWER TRANSMISSION LINE BETWEEN DOLNY SLASK AND WARSAW

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The new 161-kilometer-long high-tension power-transmission line between Bedzin and Lodz is a part of the planned power line between Dolny Slask and Warsaw. Starting at Legisa, a suburb of Bedzin, which is about 2 kilometers northwest from the center of Bedzin, the line passes through Czesochowa, Radomsko, Piotrkow, and Janow on the way to Lodz. It crosses the Warta River at Czesochowa, the Malachana [Malczna] River east of Tarnowice, the Warta River and a tributary of it at Radomsko, and crosses the Warta River again just before reaching Lodz. Altogether it crosses railroads five times, at Piotrkow, Radomsko, and Czesochowa. The line is to be completed and put in operation at the beginning of April of this year 1948.

The line will carry 110,000 volts but can transmit 220,000 volts without any alterations, because the insulators are suitable for this purpose. The double line is suspended from 380 towers which are 28 to 35 meters high, and 400-450 meters apart. About 3,500 tons of steel were used in the manufacture of the towers whose weight varies from 7 to 12 tons each. About 1,000 tons of cement were used in making the foundations of the towers. The total weight of the cables, which are made of steel-reinforced aluminum, is 1,100 tons. The area of a cross section of the cable is 150 square millimeters. About 280 tons of porcelain were used in making 30,000 chain-type insulators for the line. The operating voltage of each insulator is 25,000 volts. The chain-consists of 12 insulators, so that the line can transmit a planned 220,000 volts in the future.

A transformer station to step down the current from 110,000 volts to 30,000 volts is being erected about 6 kilometers southeast from the center of Lodz. From here, 30,000-volt underground cables, each consisting of three strands with a cross section of 150 square millimeters, lead to the central substation of the city. Four cables with a total length of 24 kilometers have been laid. The chief engineer is Marian Kobylinski.

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Construction of the remaining portion of the line between Lodz and Warsaw, via Zyrardow, has not yet started, but surveying and the ordering of the necessary materials for its construction have been completed.

The line will transmit 30,000 kilowatts from the Lagisza Electric Power Station. After completion of the portion between Lodz and Warsaw, two Warsaw electric power stations in Moscice and Roznow will also supply their output to the line.

Supplies for the construction of the line came from different plants. The Mostostal (Steel Bridge Construction Enterprise) Plant in Zabrze and the Metallurgia Plant in Radom supplied the towers; the Isolator (Insulator) Plant in Bishko [Bielsko?], the insulators; and the Kabel (Cable) plants in Bydgoszcz and Krakow, the cable. The foundries which supplied cranes included Wytownia Wagonow i Mostow (Railroad-Car and Bridge-Construction Works) in Chorzaw, Zabrze, Huta Pckoj (Peace Metallurgical Works) in Lbedy, and Elew tor (Crane) in Katowice.

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